Purchase Order Receipt Listing

Wednesday, September 27, 2017 10:43:20 AM

All Vendors PO ID PO37836 Receipt Dates from 9/26/2017 to 9/26/2017 All Line Item Types Grouped by Vendor ID

All amounts are calculated in domestic currency.

					CAD	Purchase Line Order ID/ Nbr/ Curr Type Insp Req VendorID/Vendor Name
	No	9 S	4 N o	No.	N Z N	Line Nbr/ Insp Req
	PROCUREMENT QUALITY CLAUSES m138616	Hot Rolled Steel St. St. Plate 0.375" (44W) m138616	M1018R2.250 f M1018R2.250 f m138616 MT-HRS-P-0.375 f	MT-HRPO-S6GA sf Hot Rolled Pickled & sf Oiled Steel Sheet *18 a 6GA m138616	H-R1.	Project ID Reference/ Description/ Cert Std VC-CAM002 Acier On
		9-89 DAS	9-89	9-89 DAS	DAS 5-89	PO U/M / Stock U/M
	10/6/2017 9 1.0000	10/6/2017 16.0000	10/6/2017 1.0000	10/6/2017 50.0000	10/6/2017 2.0000	Required Date Required Qty
	9/26/2017 PLOU01	9/26/2017 PLOU01	9/26/2017 PLOU01	9/26/2017 PLOU01	9/26/2017 PLOU01	Recv Date/ Recv Emp
	1.0000	16.0000	1.0000	50.0000	2.0000	Recy Qty (PO U/M)
Total Qty Total Qty T	\$0.00 \$0.00	\$11.10 \$177.63	\$13.69 \$13.69	\$5.74 \$287.17	\$29.91 \$59.83	Cost Per Unit/ Recv Value
Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity: Total Receipt Value: Total Balance Due Quantity:	0.0000	0.0000	0.0000	0.0000	0.0000	Inspected Qty/ Rejected Qty (PO U/M)
tity: (M): tity: lue: lue:	0 0	0 0	0 0	0 0	0 0	MRB Qty/ MRB Reject Qty
70.0000 0.0000 0.0000 \$538.32 0.0000	\$0.00	\$177.63	\$13.69	\$287.17	\$59.83	Book Amt

Page I of I



935, Boul. du Hâvre Salaberry de Valleyfield (Québec) 36S 5L1

Order - Sales

Copy

CO00052756

### Shipped to Shipped to	Billed to	Fax: 450-377-5696 Mtl:	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Date Delivery date
Product Description Act: CHANTAL LAVOIE Tél.: 613-632-5200 Frocessed by Salesman Aux ESBURY, Onlario, K6A 1K7 Act: CHANTAL LAVOIE Tél.: 613-632-5200 Carrier Credit Terme Delivery Route 5 Page Product Description Weight Qty U/M Credit Terme PA38 V 4116 Veight Qty U/M CCMD EXP 1 X 4" X 4" HEAT: 7093C4-51 5 244.80 16.00 PIZ_SCLB 1.00 EXP 1 X 12" HEAT: 7093C4-51 5 245.00 LBS_SCLB 1.00 EXP 1 X 12" HEAT: 136550 5 13.52 1.00 PI_SCLB 1.00 1 X 12" HEAT: 136550 5 8-89 1.00 IN IN 1 X 12" HEAT: 136550 5 383.00 50.00 PIZ_SCLB 1.00 1 X 12" HEAT: 136550 5 383.00 50.00 PIZ_SCLB 1.00 1 X 12" HEAT: 136550 5 5 1.00 IN PD-316-V JOSES 9.89 383.00 50.00 PIZ_SCLB 1.00 1 X 12"	DART AEROCOACE - TO	Shipped to		Your order No
Salesman	DART AEROSPACE LTD			Processed by
Att : CHANTAL LAVOIE Tél.: 613-632-5200 Carrier Froduct Description Att : CHANTAL LAVOIE Tél.: 613-632-5200 Credit Terme	1270 , ABERDEEN ST.	, Ontario,		Salesman
Product Description Weight Qty U/M PAS 1.00 Exp	Charle, VON TOX	Att : CHANTAI I AVOTE	Tái . 643 633 633	Carrier
Product Description Weight Qty U/M CMD EXP			IEI.: 613-632-5200	Credit Terme
Product Description Weight Qty U/M PCS NE PA4-38-V 4116 244.80 16.00 P12_SCLB 1.00 EXP 1 X 4'X 4' HE47: 7093C4-51 5 5 244.80 16.00 P12_SCLB 1.00 EXP COUPE AU FEU 3 8-89 245.00 LBS_SCLB 1.00 ISS_SCLB 1.00		Delivery Route	5	Page
PLATE 44W 3/8 RANDOM P44-38-V 4116 I X 4' X 4' HEAT: 7093C4-51 5 COUPE AU FEU 3 ROUND CR 2 1/4 1018 RANDOM RCR-214-V 5301 DAS I X 12" HEAT: 136550 COUPE A LA SCHE 1 PLATE HRPO 3/16 RANDOM NS PPO-316-V 90329 I X 5' X 10' HEAT: 9373C4-55 9-89 DAS 4C-9571-RY-25/09 244.80 16.00 P12_SCLB 1.00 EXP PAGE EXP 245.00 LBS_SCLB 1.00 P12_SCLB 1.00 IN EXP 1.00 EXP PAGE EXP 245.00 P12_SCLB 1.00 P12_SCLB PAGE PRO-316-V PO-316-V	Product Description	Weight		
P44-38-V 1 X 4' X 4' HEAT: 7093C4-51 5 COUPE AU FEU 3 P-89 ROUND CR 2 1/4 1018 RANDOM RCR-214-V 5301 5 COUPE AL A SCHE 1 1 PLATE HRPO 3/16 RANDOM NS PPO-316-V 9029 DAS 1 X 5' X 10' HEAT: 9926-55 AC-9571-RY-25/09 DAS 9-89 DAS 9-89 DAS 9-89 100 PIZ_SCLB 100 PIZ_SCLB 100 PIZ_SCLB 100 PIZ_SCLB		244 80		EXP
COUPE AU FEU 3 8-89 245.00 LBS_SCLB ROUND CR 2 1/4 1018 RANDOM RCR-214-V 5301 DAS 1 X 12" HEAT: 136550 COUPE A LA SCHE 1 PLATE HRPO 3/16 RANDOM NS PPO-316-V 9029 DAS 1 X 5' X 10' HEAT: 9373C4-55 AC-9571-RY-25/09 9-89 245.00 LBS_SCLB 10.00 PI_SCLB 383.00 50.00 PI2_SCLB 9-89	4116 47: 7093C4-51			1.00
ROUND CR 2 1/4 1018 RANDOM RCR-214-V 5301 DAS I X 12" HEAT: 136550 COUPE A LA SCHE 1 PLATE HRPO 3/16 RANDOM NS PPO-316-V 9029 I X 5' X 10' HEAT: 9373C4-55 AC-9571-RY-25/09 9-89	PE AU FEU 3			
1 X 12" HEAT: 136550 COUPE A LA SCHE 9-89 SCIE 1 PLATE HRPO 3/16 RANDOM NS PPO-316-V 9029 1 X 5" X 10" HEAT: 9373C4-55 AC-9571-RY-25/09 9-89	ROUND CR 2 1/4 1018 RANDOM RCR-214-V 5301	13.52		1.00
PLATE HRPO 3/16 RANDOM NS PPO-316-V 9029 1 X 5' X 10' HEAT: 9373C4-55 AC-9571-RY-25/09 9-89	12" HEAT: 136550 PE A LA SCHE			
HEAT: 9373C4-55 5 9-89		383.00		1.00
	' HEAT: 9373C4-55	φ · ίν		

NIR: R-109516-6



ACIER OUELLETTE INC.

Order - Sales

Select Const

CO00052756

	935, Boul, du Havre	-	C/200002/5	1/1/5
Collection of the	Salaberry de Valleyfield (Québec) 165 5L1 Tél.: 450-377-4248 MII: 514-336-4248 Evt. 900-667 4248	Customer N°		
	Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	Date	2017/09/22	
		Delivery date	2017/09/26	
Billed to	Shipped to	Your order N°	37836	
DART AEROSPACE LTD	and the same of	Processed by	Josianne Bourdon	
1270 , ABERDEEN ST.	, Ontario,	Salesman		
Charle, NOT IN	Att - CHANTAL ANDER	Carrier	OUELLETTE VALLEYFIELD	
	CHANNIAL DAVOIE TEL: 613-632-5200	Credit Terme	Net 30 Days	
	Delivery Route 5	Page	10	
Product Description	Weight Qty U/M	PCS NB	Internal Use Only	
4 COLD DRAWN SEAM, TUBING 1" OD X 170 4170		CMD EXP B/O	IN I S C OUT	
	1.00 UN	1.00		
1 X 20' HEAT: 217067 AC9573-MM-25/09 5 ROUND 4140 HEAT TREAT 1 3/4 (200)				
	16.36 2.00 PI_\$CLB	1.00		
SCIE 1	1.00 UN			
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE	vs.	0.00		
Conditions :	Total Weight (LBS) :1 657.68 NJR	: R-109516-6		
In you and delivered materials remain the property of "Acer Quelette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by following conditions: Not 30 days from bling date and the buyer and his warranty is transferred by "Acer Quelette Inc." to the client. The buyer nereby accepts to respect the respect with this contract will lead to payment by accepts to be administration charges of 2% per month (2%s per anium) on all past due amounts over 30 days. Any default in within for (5) days with this contract will lead to payment by acceptation and permits to the seller, at his colocito claim for the businered due or the repossession of the goods and. All claims must be made a 25% institution (charge, and contract will lead to authorize the contract of the subject to the seller, at his contract or modified cannot be returned. All goods returned must be without authorized and or selection of the subject to the spects of the spects of the proposession of the goods and. All claims must be made a 25% institution (charge, and or selection) are selections.	It is made in full, complete and cashed, All lost materials are at the buyer's expense. I arrantly is transferred by "Acter Duellette Inc." to the client. The buyer neverly accepts tration charges of 2% per month (2% per anoum) on all past due amounts over 30 or at his choice to claim for the balance due or the repossession of the spoks soid. All client per modified cannot be returned. All goods returned must be with our authorize.	he warranty offered by to respect the avs. Any default in mrs must be made		

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

3

D

Total (\$CAD)

1 055.18

Balance Deposit

1 055,18 0.00



SO No., Item & Date.:

ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

10127 - 1/2

411048100 C P RAIL (CAD FUNDS) - CGLX 12069 ESA-385275 2017/03/13 - 01:40:39 Customer Specification HR STEEL SHEET HSLA SONSS To the Chemistry of CSA G40.21 44W (2013) Top Scmi Critical Surface Improved Shape Gauge type Min - 0/+ 0.0100 * G-46220(REV) / 8 1200008792 Customer PO NO Mem: TC No., Date & Time : Cust. Part No .: BOL NO. Carmor: 1200008792 2017/03/12 LES ACIER TRANSBEC (1997) LIEE Ship to Customer Namo and Address: VARENNES, Quebec, Canada RUE JEAN COUTU 350 Shipment No.& Date.: **J3X 1P7** 8050589 000080 2017/03/12 LES ACIER I RANSBEC (1997) L'TEE Sold to Customer Name and Address : BOUL LE CORBUSIER #201-4054

LAVAL, Quebec, Canada

H7L 5R2

Supplementary Instructions: Test Cert 1:mir@co:inx.ca Test Cert 2: nathalie legault@aciertransbcc.com

Cust Use: RESALE IMPR SHAPE & SURF FISSAR STEEL ALGOMA INC. HENEBY CERTETES THAT THE MATERIAL HEREIN DESCRIBED WAS LADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARERETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES.
THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF CSSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARENOT THE INTENDED RECEIVER. PLEASE CALL (105)444-068 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF Insp T/R : Test Repart For Info Only

ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVALABLE AT WWW.ESSARSTIFFLALGOMA COM ALL HEATS FULLY KILLED.
HEATS INDICATED WITH (*) FINE GRAINED.
HEATS INDICATED WITH (*) MAGE IN CENSEE IN PARTIA GLDY preference and NAFTA marking purposes

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				TACKET CONTRACTOR OF THE PROPERTY OF THE PROPE	A	0.040 0.017				ELONG(%)		42
					Mo	00.0	П			TENSILE(KSI) EL SCALE	-	2.
Pcs			000000000000000000000000000000000000000	NOTERILES	20	0.03		PROPER		TENSILE(KS)		76.0
Quantity	42 184 I B	00.00	CHEMICAL	T T T T T T T T T T T T T T T T T T T		1.02 0.02	Wer was an extensive	MECHANICAL PROPERTIES .		MELD(KSI)	200	55.0
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Batch No.	XBM9191			a		0.003			GALIGE		O REED AF	איי הפספים
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I X M X L	8.000	-	-	0	6+0				SPCF		DAG	
닭.	3550 X 4	1		(%)	1			sts	Batch No.			
1	2			Heat-No. Ly	+	709304		Tensile Tests	Heat No.		- 7093C4	

DAS



MANAGER METALLURGICAL SERVICES KASHIF REHILLAN

"WARNING" IN RESULTS AND VALUES REPORTED REGISTED RECURE DRY THAT (1) THE PARTICLANE. STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MARAIN SPECIFIED STREAM AND (2) THE ANALYSEA AND PARTICLANDES OF STONESTED AND CANNOT BE USED TO CHALLYSEA AND STREAM AND THE ORGANIZED AND CHALLYSEA REPORTED HEADS CANNOT BE USED TO CHALLY THE STEEL FOR ANY SPECIFICATIONS AS REPRESENTING THE CHE WITHOUT BE USED TO CHALLY THE STEEL FOR

Date:2017/03/16 Time:13:20:53 Page no:1 of 1

48400 NGYO-MIKYAYITES/AISCYAY (SEVIN) S,OCKARUL Y LUPARDO, 2

Tfno.: 946480211

www.calibradospradera.es Email: calpradcra@calibradospradcra.es Fax: 946480128



CERTIFICADO DE CALIDAD/QUALITY REPORT

16'19

06,33

954581

119516

940'0 -

701'0 -

9401

706

EN 10304/DIA 20046

De seuerdo a /Made according to:

N° CERTIFICADO / CERTIFICATE VR.: 44806

LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER CLIENTE Delivery Note Nr.

90817

NOLDH: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Bright steel products. Technical delivery conditions.

: ILLION

VLBARAN

PAR-46825

6005 NW

PRODUCTO SOLICITADO! PRODUCT ACCORDING ASTMA108

01121 74	9171	TO TODIS COLUMN			1 010000	
6MST-N	8101	RED. TORNEADO 76,20 (3")	401.1	-0,102	012120	02,87
6HST-N	8101	RED. ESTIRADO 63,50 (2 1/2")	• 654	940'0 -	053516	05'69
9829 + 41	1018	RED. ESTIRADO 27,15 (2 1/47)	780'1 .	940'0 -	LL39E1	51'15
6889 1 -40	8101	RED. ESTIRADO 50,80 (2")	986 .	940'0 -	913981	08,02
N-46496	8101	RED. ESTIRADO 63,50 (2 1/2")	940'1 .	940,0 -	915850	05'59
959975		RED. ESTIRADO 44,45 (13/4")	058	940.0 -	512642	50'00
7-46636	8101	RED. ESTIRADO 41,28 (1 5/8")	2.096	940'0 -	565516	41,28
17-46636	8101	RED. TORNEADO 76,20 (37)	1,104	201,0 -	915720	0794
9099⊁⊓	8101	RED. TORNEADO 101,6 (4")	041'1	- 0,102	984516	09'101
VK-46465	1042	RED. ESTIRADO 50,80 (2*)	090'1	701'0-	655516	08,02
AR-46465		RED. ESTIRADO 44,45 (13/4")	Z00.1	940'0 -	812642	50'00
> PES91-0	1018	RED. ESTIRADO STAS (2 1/47) KCK 3/-4	1.082	940'0 -	055981	SI'LS (
₱€\$9₱ <u>-</u> 0	8101	RED. ESTIRADO 50,80 (27) K.Y	940'1	940'0 -	133019	08,02
AR-46465	8101	RED. ESTIRADO 41,28 (1 5/8")	876	940,0 -	565516	82,14
JP-46560	8101	RED. TORNEADO 76,20 (3")	1011	201'0 -	915720	02,97
09591-41	8101	RED. ESTIRADO 63,50 (2 IAT)	870.1	940'0 -	136287	63,50
1159¥-Ω	8101	RED. ESTIRADO 42,86 (1 11/16") APL////	911'1 .	940'0 -	161981	42,86
AR-46187	1042	RED. ESTIRADO 50,80 (27)	1.062	-0,102	655516	08'05
V1-46322	8101	RED. ESTIRADO 47,63 (17/8")	0411	940'0 -	P64516	£9°L7
Purebase Order				EDNEKTIOZ VENENSTRUM) COR.	Valazivi Valazivi

Composición quimica de la colada / Chemical Anahysis of Heat

1018 RED. ESTIRADO 61,91 (27/167)

1018 RED. TORNEADO 88,90 (3 1/2")

IS %	S %	d %	% "%	3 %	COLADA Cast Nr.	OŁ	MEDIDA
0,320	600,0	0,020	089'0	0/10	4021215	\$6L\$16	£9,74
016,0	0,025	0,012	089'0	5>10	SI 6070b	655516	08,02
016,0	10000	\$100	0740	031'0	SI EL86E	161981	98'24
008'0	0,022	6,013	089'0	091'0	SI 0150Þ	136287	05, 63
067'0	070'0	0,013	019'0	0410	40354 IS	015720	10794
016,0	0000	\$100	0740	031'0	SI EL86E	565516	1 87 14
961'0	8100	0700	667,0	1910	A 2526E	610551	08,02
001,0	L10'0	0100	004'0	0/10	40585	136550	SILS
1810	L70'0	800'0	859'0	191'0	V 9000Þ	779516	56'00
0,310	0,025	0,012	089'0	0,445	SI 60707	655516	08,02
1/10	970'0	610'0	0,724	6,163	39882 A	987219	09'101
0620	0'050	E10'0	019'0	0/10	40324 12	915720	76,20
0,310	1000	\$100	0,740	031,0	31 ET8QE	565516	41,28
0,184	LZ0'0	800,0	859'0	191'0	¥ 9000¢	915642	57'00
008'0	0,022	6,013	089'0	0910	SI OLSOF	028216	02,50
0,340	500'0	110,0	0110	0,160	SI \$100b	136876	08,02
001'0	4100	010'0	004'0	0/10	₹0585	L189E1	S1'LS

AR490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Ten:: 946480211 Fex: 946480111

ea.mail: calpradera@erabradeospradera.es ca.esabradoopradera.es



CERTIFICADO DE CALIDAD/QUALITY REPORT

1.5

EN 10304/DIN 20049

De neuerdo a Miade according to:

N. CEKLIELCYDO / CEKLIELCYLE NE: 41800

CUENTE LES ACIERS TRANSBEC (1997) LTÉE

Productos Calibrados de acero. Condiciones técnicas de suministro.

Bright steel products. Technical delivery conditions.

Norm: EN 10277

Delivery Note Mr.

ALBARAN

0,330		910'0	014'0	091'0	SI 60E01	954581	16'19
0,310	£00'0	0'010	0140	0410	SI >886E	1199516	06,88
062'0		0,013	019'0	0/10	40374 IS	074516	16,20
005,0	0,022	0,013	089'0	0,160	SI OLSOF	058516	05,59
IS	S	ď	nM	2			
%	%	%	%	%			

Caracteristicas mechalcas / Mechanical proporties

90811

Dereza HB Hardness HB	Alergamicato Elongation Lo=50 mm.	Lim.elfstico Yield point 2,2% Wmm2	Restriends Tens. strenght Minml	COLADA Cost Nr.	OF	MEDIDA
154,00	00'0	00'0	00'0	4031712	16LS16	£9'L¥
227,00	00'0	00'0	00'0	SI 60Z07	655516	08'05
142,00	00'0	00,0	00'0	SI E486E	161981	42,86
00'951	. 00,0	00'0	00'0	\$1 0450t	136287	05,50
00'9vI	35,00	321,93	18'557	40324 IS	012350	02'94
142,00	00'0	00'0	00'0	SI EL86E	565516	82,14
00'0	31,00	01'855	480,20	39235 A	133019	08'09
133,00	33,00	305,00	00,874	\$850>	(055981)	SI'LS
00'0	00'0	317,46	450,80	¥ 9000≯	Z\$9516	Sp'pt
227,00	00'0	00'0	00'0	ST 6070Þ	655516	08'09
00'0	28,00	338,10	02'08>	3982 A	984516	09'10
00'911	35,00	321,93	18,224	40354 IZ	074516	02'92
142,00	. 00'0	00'0	00'0	S1 £486£	565516	82,11
00'0	00'0	94,718	08,024	¥ 9000Þ	799516	Sp' p1
156,00	00'0	00'0	00'0	SI 0450#	058516	02,53
00'551	. 00,0	00'0	00'0	\$15100¢	948981	08,00
133,00	33,00	30,200	i 00'34>	\$8507	LL89E1	S1'L9
00'951	00'0	00,0	00'0	SI OLSOP	072516	05,62
00,321	35,00	321,93	18'55	39884 IS	119916	06,8
00'551	29,00	317,52	00'0	\$1 6080b	9572551	16'1!
142'00	00'0	00'0	0010	CLEOCOL	DCICC:	r ed e.

Calidad Superficial

เอยสำเวรา	 	EN 10277-1
ESCRIPCIÓN	OF	Clase

Observadones: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALEAR

Fax: 946480128 Tfno.: 946480211 48490 NGYO-MIKAVALLES/VIZCAYA (SPAIN) ARANA Y LUPARDO, 2

Email: calpradera@calibradospradera.es



www.calibradospradera.es

CEKTIFICADO DE CALIDAD/QUALITY REPORT

N° CERTIFICADO / CERTIFICATE NR: 44806

EN 10204/DIM 20049

LES ACIERS TRANSBEC (1997) LTÉE

Productos Calibrados de acero. Condiciones técnicas de suministro. CUSTOMER CITEMIE

NOLIDE : EN 10277

Delivery Note No.

YEBARAN

90877

QUALITY DEPARTAENT: Certify that the product fulfils the order specifications.

De acuerdo a Made necording to:

: шиоМ

Fecha/Date: 11/11/2016

DEPARTANKENTO DE CALIDAD: Certifica que el mencionedo producto cumple con las especificaciones del pedido. Bright steel products. Technical delivery conditions.

Firmado: Susasa Fernández Directora de Calidad

ESSAR

ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontarlo, Canada P6A 7B4

SO NO., Mem & Date.		8053475 000070 2017/06/04	74	Shipment No.& Date.:	100024307	1000243071 2017/06/04	04	TC No. D.						
_								ים יים יים	C INC. Dolle & TIME:		ESA-405867 2017/06/04 - 13:22:12	17/06/04	13:22:12	
								Customer	Customer PO NO./Item:		791355/7			
								BOL NO.:		FB(FB075374			
								Cust.Part No.:	Vo.:					
		(1	(Carrior:		TR	TRANSCARE LOGISTIC CORP 638	DGISTIC C	ORP 638	
Customer Specification		HR STEEL SHEET Carbon CQ / CS ASTM	CQ/CSA	STM A1011 CS TY B (2	015) Top Sem	Critical Cum	1000							
				Contact improved Shape Pickled Oiled Gauge lype MIN - 0/+ 0.0050 " Coll break considered			race improv	ed snape F	ickled Oiled	Gauge lyp	e MIN - 0/+ C	0.0060 " C	oil break conside	red
	,)												
Supplementary instructions :		Test Cert 1:nancy.duni@ryerson.com	Nyerson.co	we										
Insp T/R: Chemical Analysis	cal Analysis													
ESSAR STEEL ALGOR	A NC. HEREBY CE	RTIFIES THAT THE MATE	RIAL HEREIN	ESSAR STEEL ALGGINA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WATH THE BILL CO. MACHINE PRACTICES. COMMANY'S STANDAND RECORD KEEPING PRACTICES.	TESTED IN ACCO	RDANCE WATER	THE DIRECT				Cust Use :	GENERAL	Cust Use: GENERAL MANUFACTURING	SIING
INSTRUCTIONS ON M	ETHOD OF DISPOS	EPRODUCED EXCEPT IN AL OF DOCUMENT. THIS T	FULL WITHOU	INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT. THIS TEST REPORT ALK BREIN COURS HAVE BEEN CONTROLLED IN THIS TEST ALK BREIN CONTROLLED IN ACCORDANCE WITH THE	SSAR STEEL ALC	DMA INC. IF YO	W RECEIVE TH	IS DOC! INEN!	CATION SHOW	WR. ALL RESI	ILTS ARE RETA	INED IN ACC	DRDANCE WITH TH	411
ISO QUALITY AND EN	VIRONWENTAL CER	MEETS EN 10204 3.1 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE.		THE SERVICE BY	ACOMPUTERIZE	SYSTEM AND	IS VALID WIT	HOUT A PINTSII	CAL SIGNATUR	E.	SO RECEIVER,	PI EASE CAL	L (705)945-4095 FO	
ALL HEATS FULLY KILLED.	1.50.	N STORE VANISABLE A	TYNYON ESS	ARSTEELALGOMA COM										
HEATS INDICATED WITH (*) FINE GRAINED. HEATS INDICATED WITH (*) Made in Canada	TH (*) FINE GRAINE TH (*) Made in Cana	PIEATS INDICATED WITH (*) FINE GRAINED. HEATS INDICATED WITH (*) Made in Canada for NAFTA duly preference and NAFTA marking suppose	Ce and NAFTA	A marking curronse										
Dimension	Dimensions (*			spendad fi										
0.1770 "x 60.000	x 60.000 "	Batch No. PBO7006	36	Heat No-MS Qu	Quantity	Pcs								
Heat No tures	1	*******************		The second second	OOO CD	-								
9373C4*	0.04	0.27 0.008	0.003	SI Cr NI Cu Mb V B	NI PROP	Cu 0.01	Mo	Al	NP	>	. @	F	z	П
								0.023	0.000	0.000	0.0000	0.001	0.0060	T
											-			-

KASHIF REHMAN MANAGER METALLURGICAL SERVICES

WARNING THE TEST HEBULTS AND VALUES REPORTED HEREM INDICATE ONLY TRAT (I) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MAINAIN SPECIFIED WELD SHENDTH AND INTERPRETATION OF WILLIES OF SUCCESSION OF THE RESULTS ON VALUES REPORTED THE MAINAIN SPECIFIED SHENDTH AND THE THE THAN THE ONE HIDITAL AND CAN NOT BE RELIED UPON FOR ANY PLIFFORE (INCLUDING DESIGN OR CALCULATIONS) AS HEPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

BENTELERY

Steel/Tube

ION EN ISO 9001, ISO/73-16949 CERTIFIED BY TUEV NORD CERT! IPED 97/23 EC CERTIFIED BY TUEV NOFD SYSTEMS! Page: Warmrohrwerk/Zigherei Manufacturer's brand: Herstellerzeichen. No. du certificat: Inspection No.: Manufacturer: Producteur: Hersteller: Prüt-Nr. 12-12119 TW M492B2168 41-717496/001/P 1578716 No. de commande du client: Bertioler Order No.: No. de commande Benteier: Benteler Auftrags-Nr.: Purchase Order No.: Kunden-Bastell-Nr.: Dokument-Nr.: No. du document: Document No.: Bentaler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland ABNAHMEPRÜFZEUGNIS EN 10204-3.1 33043 Padeibarn Deutschland Tel.: +49.5254,81-0 Fax: +49.5254,13666 INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1 The Aboretum, Suite 204 760 Constitution Drive EXTON PA 19341 USA

EN 10204:2005-01

TW Metals

Stahlerschmelzungsverfahren: ELEKTROSTAML
Steelmaking process: ELECTRIC FURNACE
Procede d'élaboration de l'acier: FOUR ELECTRIQUE Stamp of the inspection representative: Stempel des Abnahmebeauftragten: Marque du producteur: Ponçon du contrôleur; AMS.T.6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type NAHTLOSE STAHLROHRE SEAMLESS STEEL TUBES TUBES D' ACIER SANS SOUDURE 4119254 No. d'avis d'expédition: Versandenzeigen-Nr.: Okspatch Note No.: Produkt: Product: Produit:

Lieferbedingungen:

Terms of delivery:

Maße - Toleranzen: Dimensions tolerences:	AMS 2253E-83, Aircraft Type, Seamless, Cold Finished	
Stahlsorte: Steel grade: Nuance d'acier:	GRADE 4130, AMS 6360L and AMS 6371J	S NOV 26 2012 OF
Liefarzustand: Delivery condition: État de livreison:	Z	100 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Produktkennzeichnung: Product marking:	FSD: BENTELER AMS-T-6736 B 1-MIL-T-6736 B 1-4130 N HEAT-NO. CD AQ S DIMENSIONS WA GERMANY	DIMENSIONS WA

AZ = Attinizerbastriflung, Eichny ali making, Graus all encie. FA = Lubkenvaschung, colour making, matolaga ber couleu. FS = Fatsknabbreanny, pakt stenching, matolaga ber perturang. Asserman = FS = Fatsknap matolaga ber couleu. FS = Patsknap metolaga ber perturang. Asserman = FS = Times subtaugative, the last man in matolaga matolaga metolaga Marquage du produit.

DSLES

Heat #-217067 760 4130 120 Item-CDS 1.000 MK#-126385

€.

ZLS6'91

Benteler Steel/Tube GmbH

Postfach 13 40

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Fel.: +49.5254,81 0 Fax: +49.5254,13666

BENTELER 🛡

9		Blett: 2/ 4 Page:	rage:	Vielfachlängen	Multiple lengths	Lengueurs multiples	
Steel/Tuba	0.000			Rohr-NrGruppe	Pression d'égreuve Série de se des subst	\$200 500 500 500 500 500 500 500 500 500	
		Prüf-Nr.; Inspection No.; No. du certificat		Test pressure	Pression d'égreuve		
			Sold and a second	Heat No. Test pressure	No. de coulée		217067
	01.717.406.1004.17	0/064/17/14	Countobe	Weight	Poids	Ibs	3576
	Dokument-Nr :	Document No.: No. du document:	Länne	Length	Longueur	feet	3169,29
12.05.04.1.3000	ABNAHMEPRUFZEUGNIS EN 10204-3 1	CERTIFICAT DE RECEPTION EN 10204-3.1		Number Dimensions Nombre Dimensions		61 7 000" O D . O 225"	17 FT - 24 PT
	ABNAL	CERTIFICA	Los.			0016 161	

Schmelzenanalyse [%] / Heat analysis (%) / Analyse

	CU		0,11			CU S. NOV 2 6 2012		0.10
	Ē		0,19 0,09 0,11			Z		0.07
	MO		0,19			MO		0,19
	85		68'0			CR		0,88
	s		0,003			S		0,003
[%]	a .		0,007 0,003 0,89	1%)		۵		0,007 0,003 0,88 0,19 0,07 0,10
e sur coulee	MN	0	0,04	sur produit		Z		0,52
e Loss / Arranys	25	0.315 0.250 0.5	00000	1%) i Analyse		S	0 30 0	0,430
and the second of the second o	υ	0,315		oduct analysis		ပ	0.310 0.350	2
Schoolson	Heat No. No. de coulée	0016 217067		Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]	Schmelzen-Nr.	Hast No. No. de coulée	217067	
Poe		9100		Produkt	Pos.	Postu	0016 217067	

Prüfergebnisse / Test tosuts / Rósultats des essais

PASSED ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections; ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections; Notch depth: 0,30 mm; notch width < = notch depth; notch length min. 2 x transducer width (max. 50 mm) Die Rohre wurden zerstörungsfrei geprüft: Les tubes ont passé un essai non destructif; The tubes are non descructive tested:

PASSED Vérification des dimensions: Dimensions examination: Maßkontrolle: PASSED Materialverwechslungsprüfung: Vérification de la nuance: Material conformity test: PASSED Augensichtkontrolle: Visual inspection; Examen visuet:

Ergebnisse der mechanischen Prüfung / Results of mechanical tosting / Résultets des essais mécaniques

Die Probennahme erfolgte an Vielfachlängen.

The sampling was can'ied out on multiple lengths. L'ochantilonage eteit realisse oux longueurs multiples.

TOTAL M. CATACO 6 6 F 000 14-1 000 BA ADCOOR

4

Bentular Steel/Tube GribH Postlach 13 40 33043 Padeiborn Deutschland Tel.: +49.5254.13666

BENTELER 🛡

Month Mont	Mr.: 41-717496/001/P mr.: Streckgrenze Zugfestigkeit Vield strength Tensile strength Limite élastique Résistance à la tra Rp 0, 2 % Rm N/mm² N/mm² Min 517 Min 655		Blatt: 3/ Pege: Page:
Pos. Proben-Nr. Schmelzen-Nr. Probenabmessung Str. Resident Ro. Heat No. Apecimen dimensions Teleprouv. Limitary Limitary Postc No. de l'éprouverre No. de coulée Dimensions de l'éprouv. Limitary Anfordezungen Requirements Rm N/m Raquirements N/m N/m Exigences 0016 000001 217067 25,40 X 3,05 648 0016 000003 217067 25,40 X 3,05 648 0016 000003 217067 25,40 X 3,05 628	Streckgrenze Zugfestig Held strangth Tensie str imite élastique Résistance tp 0,2 % Rm I/mm² M/mm² III 517 MIN 655	1. 4. 4	
mm min 000001 217067 25,40 X 3,05 000002 217067 25,40 X 3,05 000003 217067 25,40 X 3,05),2 %		Einschnürung Are reduction
000001 217067 25,40 X 3,05 000002 217067 25,40 X 3,05 000003 217067 25,40 X 3,05			Coetineent de striction
0000002 217067 25,40 X 3,05 0000003 217067 25,40 X 3,05		2.2	
000003 217067 25,40 X 3,05	48	22	
		66	
		22	
Randentkohlung / Surface decerburization / Décarburation superlicielle			N. C.
Pos. / Itom / Poste; 0016 acc. MIL-T-67368 / AMS-T-67368, decarburization outside max. 0.43 mm, decarburization outside + inside max. 0.56 mm	13 mm, decarburization or	utside + inside max. 0.56 mm	E NOV 2 6 2012
Vermerk / Remark / Romardye			8

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360 and AMS 6371J, matcriel free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, Country of origin of the material and heat: Germany; see appendix page 1 of 1. Pos. / hem / Poste: 0016

Macroscopic examination: acc. to ASTM-E 381

Pos. / Hom / Poste: 0016

Magnetic particle inspec.: acc. to AMS 2301 G/2640, on prematerial

Pos. / Item / Poste: 0016

Grain size: acc. to ASTM-E 112, Grain size 5 and finer, Longitudinal structure micrography, On prematerial

Verkäufer(in) / Salasman/ woman in charge / Personne chargée : Mr Schwarz, Tel.: 05254/81-4347, Fax: 4394

-<

Benteler Steel/Tube GmbH

Pastiach 13 40 33043 Paderbom Deutschland Tel. +49.5254.81-0 Fax: +49.5254.13666

ABNAHMEPRÜFZEUGNIS EN 10204-3,1 UNSPECTION CERTIFICATE EN 10204-3,1 CERTIFICAT DE RECEPTION EN 10204-3,1

Dokument-Nr.: Document No.: No. du decument:

41.717496/001/P

Inspection No.: No. du certificat: Prûf-Nr.

BENTELERY

Steel/Tube

Blatt: Page: Page:

Paderborn Schloß Neuhaus, 05.10.2012. TEL.: 05254.81-1768 FAX: 05254.81-1752

Abnahmebeauftragter inspaction representativa

Controleur

۷.

Es wird bestatingt, dak die geketerten Erzeugwisse den techni. Liefetbedingungen des Auftrages entsprechen Diabes Dokument wurde mittels FDV erstellt und ist ditte Unterschrift reuhtsgükig. We corrity that the supplied products comply with the order specification. This document was prepared by means of electronic data products and is valid without signature. Neus attestons que his products Livids sont conformes aux stipulations de la commende. Ce document o été établit per traitement électronique de l'information et est valide sans signature.

0000 C C F 4 000 44-- 250 40000c

Benteler Steel/Tube GmbH Residenzsinge 1

33104 Paderborn

Germany Tel://49.5254.81-0 Fax: 49.5254.13666

Inspection Certificate EN 10204.3.1 / appendix Abnahmeprūfzeugnis EN 10204-3.1 / Anhang Certificat de réception EN 10204-3.1 / appendice

Document No.: No. de document: Dokument-Nr.

41-717496/001/P

BENTELER Steel/Tube

1 of 1 Page: Blatt:

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

test acture	тах. С 2	C 2			R
Makroatzung Macrostructure test Essai de macrostructure (ASTM-E 381)	max. R 1	- X	**	262	3
Essa	max. S 2	\$2		NOV 2 6 2012	
Magnetpulverprüfung Magnetic particle inspection Essai a la poudre magnétique (AMS 2301G / 2640J)	S max. 0,25	0.024			V.A. 1 * 100A
Magnetopart Essai à la pou (AMS 230	F max. 0,34	0.039			
Hartbarkeit (min. Anforderungen) Hardenability (min. roquirements) Trempabilité (exigence min.) (ASTM-A 255)	J(8/16") min. 28 HRC	31			
Hanbarkeit (min Hardenability (m Trempabilité (J(5/167) min. 35 HRC	38	Inside 0,030 mm		
Komgroße Grain size Grosseur de grain (ASTM-E 112)	min. 5	10	Outside 0.050 mm Inside 0.030 mm		
Position Item Poste		016			
Schmelzen-Nr. Heat No. Coulée No		217067	Decarburization Depth		

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure

Paderboin Schloß Neuhaus, 05.10.2012 Tel.. (0)5254.81-1992 Fax: (0)5254.81-1991

Inspection representative Controleur Abnah mebe futtragile

Thomas Gollan

2.

EN-10204:2004-2-4	Hem Description	1-34 HR RD 414042MM 24R SBO QTSF FG MST
	Customer Item	V016262
1601418	llem	11132 rev 004
Inspection Certificate 1601418	Ship Date Customer PO	896687
pection	Ship Date	3 27-Oct-2016 B96867
ny Ins	BOL	201063
Eaton Steel Bar Compa		

All bundles listed below were produced using steet from Heat 166509 issued by ALTON STEEL and were completed from Eaton Sieel Job 799489.

Units DEGP DEGP DEGF

500 - 2500

S

Units

CCNFORMS

CERTIFIED

PEW/O Report

Units

Value USA

CONFORMS Value 80 - 100

and Yield properties

Units

Length 21ft36in/24ft3in

\$

Crienalstry	Description	Value	Units	Heat Treating	Description
	Carbon		PMGT	TEMPER TEMP F	Parameter Annual
W.V	Manganeso	0.89000	PNCT	AUSTEN TEND E	Transparent in the content of the co
Δ,	Phosphorus	0.01400	Blech	Po meno o	Austenitize temp in Fahrenbeit
· ·	znjins	0.02200	D. Strang	100 months are one	Stross Reliet Temp in Pahrenheit
21	Stitcon	0.000	D. HOLL	THE LIBERT SHOW	Magnetism in Gauss
3.2	Nickel		-	TIME AT TEMP	Time at Temperature
Cr	Chronita		Ŧ	DUENCH MEDIA	Quench Media Requirements
Ko	Wolchdon.		=	STRESS FREE	Cert stress free
Al			=	HT4140-420T	Ouench & Temper
3	Section 2		Pic.	Mill Processing	Description
	- Special	0.23000	Picce	MELT COUNTRY	Notted in Country
	Vanadium	0.02800	PWGT	ROLLED COURTRY	Wolled to County
9	Columbium	0.00200	-	RED RATIO	Dedication of Country
	Mtcrogen	0.01000	-	ASTRI Standard	Production Recio
10 + 13	Klenent Sum Limit		-	19-K101/15:5	Continue and
IO	Ideal Diameter	4.97000	Ė	2434-900-110	The state of the s
Cleanliness	Description			Structure	Asima at renaile and Yield propertie
MACRO ETCH	Report macro otch results.			DEPOSITE TO	Describnon
Geometry	Description	4:107		MANAGER IN	Percent Tempered Marteneste
DIAMETER	Diamoter	3556		TACK TO THE TACK TOWN	Reported Microstructure
Jominy	Description		-	lag Kumber	Oty Units
71	11/16 inch from Ouenched End			022-2675938	4155 185
	2/16 inch from Ouenched End		יושני		
13	3/16 theh from Ouenered End	-	J. K.		
14	4/16 April Com Contract and		HAC		
75	2014 DECINE CACHELLIS BEING		222		
36	The state trom Organización		HRC		
4.5	o/le man trom Quenched End	55	HNC		
	7/16 inch from Quenched End	54	MAC		
200	8/16 inch from Owenched End	52	HRC		
29	\$/16 inch from Quenched End	-	ERC		
070	10/16 inch from Quenched End	-	HAC		
311	11/16 inch from Quenched End	0.00000	1120		
312	12/16 inch from Quenched End	4.1	HAC		
314	14/16 inch from Guenched End	45	MAC		
J16	16/16 inch from Quenched End		HRC		
516	18/16 inch from Quanched End		XX		
320	20/16 inch from Quenched End		Hac		
322	,22/16 inch from Quenched End	00	Had		
324	24/16 inch trom Quanched End	+	fran		
328	28/16 inch from Quenched End		267		
J32	32/16 inch trom Quanched End	-	2007		
Mechanical	Description	ĺ	The state of the s		
TERSILE PSI	Tensile Strength in PS; Units		257		
VIELD PSI	Yield Strength in PSI Units		2 0 0		
ELONGATION	Percent Blongation	-	100		
REDUCTION	Percent Reduction in Area	-			
BRINELL SURP	Brinell Surface	1	1		
			5		

Bundle lags with Eaton Steel identifiers reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steel's Quality Manual QM-C0001 / Rev 3 / 226/13, We hareby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the pussession of Eaton Storil.

This document was prepared by areans of electronic 10221 Capital Avonuo, Oak Park, IM 48237 USA.

This document was prepared by areans of electronic 10221 Capital Avonuo, Oak Park, IM 48237 USA.

Created on 27-Oct-2016 Thomas Snabes, Corporate Metalfurgist

http://www.catonsteel.com

Tel: 248-398-3434 Fax: 248-398-1434



CERTIFIED MILL TEST REPORT

ARN Steel Teel Lab #5 Oz Steel Aban, L. 62021-5211 (618) 43-440 Str 2465 (519) 453-4491 (549)

SALP TO Latin Seet Companion 1021 Destin Avenue Qui Accos Neal Treat 1043 Destin Avenue 1044 Destin Avenue 1044 Destin Avenue 1045 Destin A	00/2/0/2016 (Customer PD 156912-MS Severifications and 12 Customer PT 15902 156912-MS ASTH A 122-DT ASTH A 122-DT ASTH A 122-DT	Sand Cag M = 27.7.		CHEMICAL ANALYSIS TEST METHODS AST'N E-415 & 6-1019	2	241 6.89 6.201 6.23 6.23 6.23 6.107 5.946 2.162 2.551 6.201 6.202 6.203 6.203 9.2023	JOHENY HARDEMABILITY USING ASTH A-155 CALCULATED PAGH CHENICAL DE	316 318	SPECIAL TEST RESULTS	ATM E-4 MOTOR ATM E-4 MOTOR C NA NA J ATM E-34 OVER 11 TOWN	SA SE S O S OF SA MAN OF STREET		ADOTTIONAL COPPLETS	Administrated all both courses of the recognition o		THE PROPERTY SERIES OF THE PROPERTY AND A STATE OF THE PROPERTY OF THE PROPERT	Detail thems. And the second themselves the second themselves the second themselves the second the	
BILL 10	Data ASI Ord No. ASI Ord Live Topm	Steal Set, 141 Royal 1,720, 242"	Herr Wumber		Heat Rumber	166509		NAS INCOME			Pest Nurther	166309		TO PERSONAL SAME AND SAME OF THE SAME OF T	ASA, Planted quality	Substitute and propries settle may a Ore county of Machine State of 8 most	E	My COTTON TOWNS COLORED

Lab Services Report

BIII TO: Apolo Heat Treating

10400 Capital Avenue

Oak Park, Att Randy Call

Attn:

real@apolohip.com

10221 Capitol Avenue Oak Park MI 48237 (248)543-3578 telephone (248)398-1434 facsimie Ship To: Apollo Heat Treating

Report Date: 10/14/2016 Oak Park, MI

10400 Capital Avenue

16-3002 Report ID:

Request ID:

Shipe Round

gar huy

Roport Approved By: Stave Avery

Mechanical Testing ASTM EBM-153

ASTU EIG-15

Mechanical Testing

ASTIVE 10-15 ASTM EBIA-15a

Sample D Utimiss 1235, Orasi Eschigaton Magneton of Haw Surface 15-300-1 151,300 138,300 19 55 321 321 16-3002-1

Test Comments

Mechanicals tested at Ittel Ractus

Any sentas with n a section marked with " are not pan of Tian Meanury's current AZIA acceptation. All testing parlormed by Tian Metalugy was done as ambert (room) lemperature.

Report (D.: 8-3002

Page 1 of 2

Report (0.16.3002 Page 2 of 2

Any benetos within a section marked with " are not part of Tian Melahyay's burtent Agl.A appred sellon. All tesung pertormed by Tian Melahyay was done at anteent (room) tompolative



10400 Capital Avenue + Oak Park, Michigan 48237 • (248) 398-3434

CERTIFICATION OF HEAT TREATMENT

Customers Order Number: 16 - 0467 Customers Order Number: 799489 Part Number: 10902 - 11132 Heat Number: 166509 Date: 10/17/2016

Heat Treat Job Number: 2167

Weight: 41,080 lbs.
Description: 1,7500" Olameter x 24" 2" Length
Per Specification: ESHT HT4140 - 42QT Quantity: 206 Pcs. Material: 4140

	Temperature	Time at Hear	000
Normalized	N/A		Coolant
Preheat	N/A		
Austenitized/Hardoned	1,000 ₽	45 Minutes	
pray Quenched	102.8 °F - 104.8 °F	N/A	Minden
Temper	1220 °F	1 Hour 15 Minutes	Air Cooled to A - Line
Temper	N/A		A COMPONENTIAL CONTROLLER

Method of heat treat monitor, set point thermocouple (Type K). Equipment calibrated per AMS27505. We hereby certify the above material has been treated in the manner described are correct as contained in the records of Apollo Heat Treating and Processing, LLC.

Randy L. Call

Plant Manager Apollo Neat Treating & Processing, LLC

MATERIAL RECEIPT INSPECTION FORM

		٨	DOES THIS REQUIRE AN EXTRUSION REPORT
	(6)	7	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF
	N	W	CORRECT M# ON THE MATERIAL
	N	8	ORRECT MATERIAL IDENTFICATION
19-102 と602 井十月	N	(1)	CORRECT REF # TO LINK CERT
	(A)	Y	PHOTO REQUIRED
the chief the let playther	N	3	CORRECT THICKNESS
of place to dert tooling while		(3)	CORRECT MATERIAL PER M-DRAWING
	N	Ď	CORRECT GRAIN DIRECTION
	N	X	CORROSION
	N	(d)	CORRECT FINISH
	AD	人	SURFACE DAMAGE
COWWENTS	N) GCK	(CP	DESCRIPTION
SHEET SIZE BECEIVED: SHEET SIZE ORDERED: THICKNESS ORDERED: SHEET SIZE ORDERED: THICKNESS ORDERED:	500) 6 7	MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY REJECTED:
PO/BATCH NO.: ON 37836/NITSE(NO.	<u> </u>	17.	MATERIAL: MT-L SE: STAD

		AND WHISHOUT	t al hoteanl sta	1291
				TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING
a Aua	A RUG	HRB	НВС	- IVESTANTS
SS CHECK.				
		a Aud A Aud	ULTS BELOW HRB DUR A DUR D	MATERIAL AND PREFORM A HARDNESS CHECK. ECORD RESULTS BELOW HRG DUR A DUR D HRC HRB DUR A DUR D

Poro	INSPECTED BY:
	OC 18 INSPECTION
	1079

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

O EXAMPLE: PART NUMBER: SPECIFICATION: PURCHASE MATERIAL: SPECIFICATION CONTROL DRAWING MT-HRS-P-[L.LLL]x[W.WWW]x[T.TTT] TOLERANCES PER MANUFACTURER SPECIFICATIONS MT-HRS-P-24.000x24.000x0.750 WHERE H.HHH IS PLATE THICKNESS IN INCHES WHERE W.WWW IS PLATE WIDTH IN INCHES WHERE LILL IS PLATE LENGTH IN INCHES ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018 HOT ROLLED STEEL PLATE ECN 17657 HOT ROLLED STEEL PLATE MT-HRS-P 1017,09.15 SAC O

MATERIAL RECEIPT INSPECTION FORM

MATERIAL CERT RECURSO CONTROL HAIS RECURSOR CONTROL HAIS								SIZE OF TEST SAMPLE
MATERIAL CERT THICKNESS ORDERED: OUDMITTY RECEIVED: OUDMITTY INSPECTED: OUDMITTY INSPECT THICKNESS OF DEED OF MATERIAL DEUT RECOURS OF DOES THIS MATERIAL DEUT DEUT DEUT DEUT DEUT DEUT DEUT DEUT	WEBSTER	a ana	A AUG	HRB	CHC	Н	1	JAIRETAM 40 BRY
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					TYPE OF MATERIAL SIZE OF TEST SAMPLE HAPDNESS / DUROMETER READING
WEBSTER	a Ana	A AUG	HRB	НВС	- WIGGEW 30 SAXI
	SS CHECK.		ND PREFORI		CUT SAMPLE PIECE OF N

iesters located in the Guality Office

:3TAO	DATE: SEP 2 7 2017				
SIGNED OFF BY:	68- 6	INSPECTED BY:			
ENGINEERING SIGNOFF (if required)		QC 18 INSPECTION			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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CE LTD	DRAWN BY	±± DESIGN			



WHERE D.DDD : DIAMETER IN INCHES MHHOH-R D.DDD WINNIN LIEF LENGIRE SLIFENCELY = PP 14! 154 001 = HUGHORUS 3715NOL BUYINLLYN WINWININ 004149 - # SNA -A193-03- GRADE-87 1-A29-03 1-A322-91 02 45TM A304-02/-A-434-BC/ SO CHIH ISIV NES PURCHASE MATERIAL: AISI 4140 H ROUND GAR SAG

EG. 78 ROUND BAR = M41404-RO.875



MATERIAL RECEIPT INSPECTION FORM

SHEET SIZE ORDERED: SHEET SIZE ORDERED: SHEET SIZE BECEIVED:	QUANTITY INSPECTED: QUANTITY INSPECTED: (A)
THICKNESS ORDERED:	MATERIAL CERT REC'D:
PO / BRTCH NO.: DC3 T836 M386	MATERIAL: MICLER 2 7 2017

	M	٨	DOES THIS REQUIRE AN TROGER NOISURTXE
	(N)	7	ENGINEERING SIGN OFF
			DOES THIS MATERIAL REQUIRE
	N		CORRECT M# ON THE MATERIAL
	N	(2)	CORRECT MATERIAL IDENTFICATION
11 136220	N	A	CORRECT REF # TO LINK CERT
	(N	X	рното ведиляер
	N		CORRECT THICKNESS
SOLA MICH	N		CORRECT MATERIAL PER M-DRAWING
	N	(3)	CORRECT GRAIN DIRECTION
	W	\forall	СОРРОБІОИ
	N	\bigcirc	CORRECT FINISH
	(N)	X	SURFACE DAMAGE
COMMENTS	вск	1/ <i>X</i> 140) DN	DESCRIPTION

					HARDNESS / DUROMETER READING				
					SIZE OF TEST SAMPLE				
					JAIRATAM 40 39YT				
WEBSTER	a Aua	A AUG	88H	HEC					
	HECORD RESULTS BELOW								
	CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.								

testers located in the Quality Office

: ETAG	1107 / 7 170	:3TAQ
SIGNED OFF BY:	9 CHULL (d15	INSPECTED BY:
ENCINEERING SIGNORE (it reduited)		QC 18 INSPECTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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COPYRIGHT © 2001 BY DART AEROSPACE LTD The BODDALM R BY HAVE CAMPACHED AND A SAFE LO ON THE EXPRESS CONDITION THAT IT IS NOT THE COPYRIGHT OF THE PROPERTY THAT IT IS NOT THE PROPERTY OF THE PROPERTY THAT IT IS NOT THE PROPERTY OF THE PRO	10 70- 1025 ROUND BAR	1010 1005 001	TITLE	191101017	M1018-D	DRAWING NO.	TOWNEDDUCT, OWLARD, CANADA	LAWKEDELDY OFFICE	DART AFROSPACE ITS		DESCRIPTION			REFORMAT, ADD ASTM A108, ADD TOLERANCES
OSPACE TREOPHES	X	ļ					CANAC	C	2	0.	2	SO	1	Ç
CE LTD LS6 CONDITION THAT IF IS	SLN	SCALE	2	SHEET 1 OF 1	717. 0	200	IA	-	5	DATE	PATE	01 06 12	00 00 11	12 09 05

6

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TOLERANCES:

PER ASTM A108 AS FOLLOWS: EG. 7/8" ROUND BAR = M1018-R0.875

SIZE
UP TO 1.5" INCL.
OVER 1.5" TO 2.5" INCL.
OVER 2.5" TO 4.0" INCL.
OVER 4.0" TO 6.0" INCL.
OVER 4.0" TO 8.0" INCL.

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

PART NUMBER: SPECIFICATION:

M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

DAS

MIL-S-7097 OR ASTM A108

0

	N	PA	CORRECT MATERIAL IDENTFICATION
Sg-hJELE6 #+#	N	(X)	CORRECT REF # TO LINK CERT
	D	X	РНОТО РЕФИІРЕР
	N	3	CORRECT THICKNESS
liola miza	N	W	COHRECT MATERIAL PER M-DRAWING
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	(N	٨	CORROSION
	N		CORRECT FINISH
		٨	SURFACE DAMAGE
2447	(N		
COMMENTS	GCK		DESCRIPTION
	AC.	N	
THICKNESS ORDERED: 9/8/2	to	3	MATERIAL CERT REC'D: QUANTITY RECEIVED: GUNANTITY REJECTED:
10.88M388FE00::0037836M8861	2-5	18 P	MATERIAL: MT- 1
KECEIPT INSPECTION FORM	4 71	41H	= 1 Alvi

					SIZE OF TEST SAMPLE MARDNESS / DUROMETER READING
WEBSTER	a ana	A AUG	НВВ	НРС	JAIRATAM 30 BAY
	22 CHECK		ND PREFORM		R SAMPLE PIECE OF

(N)

N

testers located in the Quality Office

:3TAQ	68-6	SEP 2 7 2017	: ETAO
SIGNED OEE BA:	SACI		INSPECTED BY:
ENGINEERING SIGNOFF (if required)			QC 18 INSPECTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

EXTRUSION REPORT DOES THIS REQUIRE AN

ENGINEERING SIGN OFF DOES THIS MATERIAL REQUIRE CORRECT M# ON THE MATERIAL

GAUGE GAUGE THICKNESS REFERENCE: EXAMPLE PART NUMBER: SPECIFICATION: PURCHASE MATERIAL: SPECIFICATION CONTROL DRAWING NOM. THICK. (IN) 0.2242 0.2092 0.17943 0.1644 0.1644 0.1495 0.1345 0.1196 0.1196 0.0747 0.0598 MT-HRPO-S-24x12x6GA WHERE G IS GAUGE THICKNESS MT-HRPO-S-[L.LLE]X[W:VVVVV]X[G]G]G HOT ROLLED PICKLED & OILED STEEL SHEET WHERE W.WWW IS SHEET WIDTH IN INCHES WHERE L.LLL IS SHEET LENGTH IN INCHES ASTM A36 ØR ASTM A1011 THICKNESS RANGE (IN) 0.2332-0.2152 0.2182-0.2002 0.2033-0.1853 0.1883-0.1703 0.1734-0.1554 0.1585-0.1405 0.1405-0.1286 0.1256-0.1136 0.1106-0.0986 0.0797-0.0986 0.0797-0.0986 0.0518-0.0548 NEW ISSUE HOT ROLLED P&O STEEL SHEET MT-HRPO-S IN-US SAC WM

PURCHASE ORDER

PO Print Date 9/22/2017 Purchase Order Date 9/22/2017

Fax: 613 632 1053 Tel: 613 632 9577 Hawkesbury, ON K6A 1K7 1270 Aberdeen Street Dart Aerospace Ltd.



Purchase Order ID PO37836

Page Number 1 of 3

	VC-CAM002	Order From :
CANADA 1270 ABERDEEN 1270 ABERDEEN Ship To: DART AEROSPACE LTD		VALLEYFIELD, QC 165 5L1 935 BOUL, DU HAVRE OVELLETTE INC.

SEP 2 2017

00.2528	Line Total: \$37.50		00.C		2107/9/01 sə,k 2107/9/01	4140 Round Bar 1.750	2 M4140H-R1.750 MAT'L: AISI 4140H ROUND BA
00.822\$	\$2.11\$		00.02 }	ĿИ	10/6/2017	A513 Seamless Alloy Steel Round Tubing I"dia. x 0.120" Wall S ALLOY STEEL ROUND TUB	1 MT-A513-T-1,000W0,120 MAT'L: ASTM A513 SEAMLES ASTM A513
Extended Price	esirA tinU O4		Req Qty/ Unit of Measure	СР	Req Date/ Taxable Promise Date	Description/ Mfg 1D	Line Reference Abr Vendor Part Number Line Comments Delivery Comments
	4	Chantal La 10127-260 Net 30 CAD FCA – (Fre	omer Poid 18 18 ency			pdd 8474 L9	Contact Name Vendor Phone Ship To Contact Ship Via: Yours

PO Instructions: QUOTATION: SOU0057382

:910N

PURCHASE ORDER

Purchase Order ID PO37836

PO Print Date 9/22/2017 Purchase Order Date 9/22/2017

Fax: 613 632 1053 Tel: 613 632 9577 Hawkespury, ON K6A 1K7 1270 Aberdeen Street Dart Aerospace Ltd.



Order From:

Page Number 2 of 3

\$222,68

Line Total:

1570 ABERDEEN DART AEROSPACE LTD : oT qid?

HAWKESBURY, ON K6A 1K7

CANADA

VC-CAM002

935 BOUL. DU HAVRE ACIER OUELLETTE INC.

CA VALLEYFIELD, QC 16S 5L1

8101A MTZA AO W44/ 1101A MTZA/8£A MTZA MAT'L: HOT ROLLED STEEL PLATE AS PER 10/9/01 J Yes \$222.68 (WAA) "27E.0 26.518 00.91 10/9/01 Hot Rolled Steel Plate MT-HRS-P-0.375 91.718 Line Total: te still MIL-S-7097 OR ASTM A108 MATERIAL: AISI 1018-1025 ROUND BAR AS PER 10/9/01 Yes 91.718 91718 00.1 10/9/01 M1018R2.250 M1018R2,250 8360.00 Line Total: 2648 ASTM A36 OR ASTM A1011 MATL: HOT ROLLED PICKLE & OILED STEEL SHEET AS PER 10/9/01 Js Yes 00.098\$ Oiled Steel Sheet 6GA \$7.20 50.00 10/9/01 Hot Rolled Pickled & MT-HRPO-S6GA Ship Acet: FCA - (Flee Carrier) LOB pdd smo_X : BiV qid? CVD Сигтепсу Ship To Phone Net 30 Terms Ship To Contact 10127-2607 Customer Tax# Customer POID 800 667 4248 лендог Риопе Chantal Lavoie Buyer Contact Name

PO Instructions: QUOTATION: SOU0057382

Note:

PURCHASE ORDER

Purchase Order ID PO37836

PO Print Date 9/22/2017 Purchase Order Date 9/22/2017

Fax: 613 632 1053 Tel: 613 632 9577 Hawkespury, ON K6A 1K7 1270 Aberdeen Street Dart Aerospace Ltd.



Page Number 3 of 3

DART AEROSPACE LTD : oT qide

CANADA HAWKESBURY, ON K6A 1K7 1510 ABERDEEN

00.I

FCA - (Free Carrier)

CVD

Net 30

10127-2607

Chantal Lavoie

VC-CAM002

CV VALLEYFIELD, QC 16S 5L1 935 BOUL, DU HAVRE ACIER OUELLETTE INC.

800 667 4248

Ship To Contact Vendor Phone

Contact Name

Order From:

Ship To Phone

Ship Via:

Yours ppd

Ship Acet:

71401-45

A005 right of entry Procurement Quality Clauses

A016 personnel qualification A012 chemical and physical test report

A017 raw material identification (as applicable)

A026 certification of material conformance

A043 retension of quality documents A042 dart notification by supplier A041 quality management system

Line Total: 2-6-61

:latoT Oq

00.08

18,668\$

00.0\$

\$0.00

PO Instructions: QUOTATION: SOU0057382

requirements. To learn in detail, please visit www.dartaerospace.com for further explanation. Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100

10/9/01

1107/9/01

ON

LOB

Сиггепсу

Buyer

Customer Tax# Customer POID **OUALITY CLAUSES**

PROCUREMENT

ACIER OUELLETTE INC.

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Salaberry de Valleyfield (Québec) J6S 5L1

BERNARD

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SOU0057382

935, Boul. du Hâvre

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Processed by	
Your Order No	Shipped to
Prices valid until	
⁰M noisivsЯ	HAWKESBURY, Ontario, KGA 1K7
Date	1270 , ABERDEEN ST.
Customer No	DART AEROSPACE LTD
Customor No	Billed to
Quotation	

Product No and description page Ţ Net 30 Days Credit Terms Att: CHANTAL LAVOIE Tél.: 613-632-5200 ONETTE 2DA Carrier **JOSIANNE**

nomA	Price	Pcs Nb	90ing M\U	Qty	W/n	Δtλ	Weight	Product N° and description
38.3	085.85	1.00	NO		PI2_\$CLB	32.00	00.84	1 X 4, X 8, 210CK LECK-50648 3385 CK 2HEEL 506 (4 X 8)
99'ZZZ	089'777	1.00	PIZ	16.00	FBZ [*] ¢CFB		244.80	PLATE 44W 3/8 RANDOM OFFRE 44W COUPE AU FEU S FEU 3
91.71	091.71	1,00	Id	1.00	PI_\$CLB	1.00	13,52	ROUND CR 2 1/4 1018 RANDOM 1 X 12" STOCK COUPE A LA SCIE
360.00	360.000	1,00	NO	00.1	NO	1.00	00.0	FEUILLE HRPO 3/16 1 X S' X 10' 2-3 JOURS ONLY THAT SIZE AVAILABLE
255.00	722,000	1,00	NO	1,00	NO	1.00	00.0	COLD DRAWN SEAM. TUBING 1" OD X .120 N I X 20' 2-3 DAYS I X 20' 2-3 DAYS
75.00	000°5∠	1.00	NI	1.00.1	NU	1.00	00.0	N AIG "4/8 I WOP!P
S6°E					\$			SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE
							306,32	Total Weight (Lbs)

00'071	CT-11A1	
95 961 .	· 51-HVT	
71,276		Sub-total

Total (\$CAD)

meaniperofonecionde l'évolution des prix de l'acier sur le marché. This offer is based on availability and current pricing conditions that may be revised upon

(car) 311610 44 1000

70'000

Approuved and Accepted by: Teltsoffridesubinetrorat conditional discussion brownship du crédit.

Important

Date :

SS'860 T

Chantal Lavoie

Wednesday, September 13, 2017 9:49 AM Regis Quenneville

David Duval Kim Johnston; Chantal Lavoie

C10 CAGE MAT'L

Kim, here is the mat'l left to enter into the system for the C10 Cage.

before you order should only be one. Chantal, once that's entered everything should be in the system for the Cage. I will find out how many we need to make

хүт

Subject:

:23

:oT

Sent:

From:

0S1.0X000.1-T-£12A-TM A262000.42X000.42-2-098H-TM

275.0X000.42X000.42-q-2AH-TM

0S1.0X000.1-T-E12A-TM

0S1.0X000.1-T-E12A-TM

Cage ass'y: Here is the complete list of mat'l and hardware we need to order to make one C10

M1018R2.250 (1') (4'x4') SIE.28101M

MOS no. Itan sensel (xx) please was sensely (xx) ADD ADD (xx) ADD ADD (xx) ADD ADD (xx) ADD (

('42) OSI.0X000.1-T-£12A-TM

AZJ-2-0994 - TM (IX) ZEVE.0X000.ASX000.AS-9-28AH-TM (Jimo) OSI.0X000.1-T-EIZA-TM

(jimo) 051.0X000.1-T-£12A-TM

6381K193 (x1)

M4140H-R1.750 (1')

(IX) 728A72SIE

(X1) A-0574-ZTE3

(IX) 811A97209

(IX) 121A47019

(XX) 062A8EE86

(XZ) ATE-8NA

(7X) 1918-096NA

(xx)MS21044N8

268-0-9-27H-TM-